

F16,1

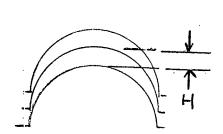
۲

TABLE 1. COMPARATIVE ARCH SHAPE CURVE PROPERTIES

Arch Curve Shape:	Truncated Semi-Ellipse Note (c)	Semi- Ellipse	Parabola	Semi-Circle	
Lable in Fig. 1	TSE	SE	Р	S	
Width at Base - inches	45.2	45.2	45.2	45.2	
Height at Center -inches	29.6	29.6	29.6	22.6	
Volume Parameter	1013	1039	892	802	Note (b)
Relative comparison	26%	30%	11%	0%	` ,
Relative comparison	0%	+3%	-12%	-21%	
Material Parameter	82	82	78	71	Note (a)
Relative comparison	-15%	-15%	-10%	0%	- ()
Relative comparison	0%	0%	+5%	14%	

Notes:

- (a) Length of the arc curve from base to base
- (b) Area under the arch curve; cross section
- (c) Truncation of semi ellipse is 2.7 inches; chamber height is 44-45% of ellipse major axis



F19.2